

NUCLEAR DIVISION NEWS

a newspaper for employees of the nuclear division • union carbide corporation

UNION
CARBIDE

Volume 10/No. 24 December 13, 1979

Traditional dishes brighten Division homes



Sharon Peacock, Frances Burkhalter and Anne Travis enjoy holiday dip

Editor's Note: In last year's special holiday issue, we touched on interesting traditions from throughout the Division, many from other countries and lifestyles. Most of the comments were favorable, but many asked why we mentioned those exotic foods without telling how to prepare them. This year, we have talked to well-known food authorities in all of the four plants. Some of them produced interesting holiday foods, and some have come forth with different foods from the turkey, ham and whatever we usually expect.

The first recipe comes from the UCC's *Headquarter News*, a traditional classic Christmas pudding, dating back more than 300 years. It is also traditional to hide a silver charm or coin in the pudding for good luck to the child (or adult) who finds it.

Classic Pudding

3 cups fine bread crumbs, one-day-old
1/2 teaspoon salt
3/4 teaspoon ground cinnamon
1/2 teaspoon ground nutmeg
1/4 teaspoon ground cloves
2/3 cup brown sugar
3/4 cup milk, scalded
6 eggs, well-beaten
1-1/2 cups raisins
1/2 cup currants
1/4 cup each (chopped) candied orange peel, candied lemon peel, candied citron
1/4 cup dates, chopped
1/2 cup tart apples, chopped
1/4 cup rum, brandy or cider

Combine crumbs with salt, spices and brown sugar. Stir in scalded milk and cool. Mix in eggs and suet, then add all the fruits and rum, brandy or cider. Work mixture with hands to distribute fruit evenly. Place in a greased 2-quart mold. Seal securely with lid or foil and place on rack in the bottom of a kettle. Add enough boiling water to cover the mold halfway. Cover kettle tightly and steam over low heat for 5 to 6 hours. Add more boiling water when needed. Serve warm with hard sauce. Makes 12 servings. Brandy may be burned over the top for an added festive touch.

Non-holiday meal

Mary McClanahan, Nuclear Division Safeguards Administration in Y-12, wrote a column for a long time for the *Clinton Courier*, outlining many of her favorite meals. McClanahan says just once during the holidays, we crave just simple food—away from the usual fare of rich poultry and heavy desserts. A successful fare she recommends can be prepared in advance which eliminates the last minute fluster in the kitchen. Her entre is baked chicken breast, prepared as follows:

6 chicken breasts or pieces. Place on lightly greased casserole. Combine 1 can cream of mushroom soup with 1/2 cup sherry and 1/4 teaspoon rosemary. Pour over chicken and cover with foil. Bake at 350 degrees for 30 minutes. . . uncover and cook another 30 minutes until done. Serve with wild rice flavored with herbs.

With this we usually serve cranberry sauce and the following green bean dish. Here again, you may prepare the beans earlier. Just before serving, heat and sprinkle with bacon bits.

Sweet-Sour Green Beans

2 cans cut green beans, drained.
1/3 cup sugar
1/3 cup vinegar
1/3 cup water
2 tablespoons minced onion
4 slices bacon

Fry bacon until crisp. Drain, crumble and set aside. Add onion to beans.

Combine sugar, vinegar and water; pour into about one-fourth cup of the hot bacon drippings in the skillet and stir. Pour over green beans and let stand for at least two hours. To serve, heat, pour into serving dish and top with bacon crumbles.

If you wish to brighten up your Christmas dinner table you can prepare a colorful gelatin salad the day before, McClanahan says. It may be increased to suit needs.

Ribbon Salad

1 pkg. each lemon, lime and strawberry gelatin.
3 cups boiling water
1 cup miniature marshmallows
1-1/2 cups cold water
2 pkgs. cream cheese
1/2 cup salad dressing
1 can (large) crushed pineapple
1/2 cup chopped pecans

Dissolve gelatin flavors separately, using 1 cup boiling water for each. Stir marshmallows into lemon gelatin and set aside. Add 3/4 cup cold water to lime gelatin and pour into 9 x 13-inch dish. Chill until set, but not firm.

Add 3/4 cup cold water to strawberry gelatin and set aside at room temperature.

Add cream cheese to lemon mixture and beat until blended. Chill until slightly thickened. Blend in salad dressing, pineapple and nuts. Chill until very thick. Spoon over lime gelatin. Chill until set but not firm.

Meanwhile chill strawberry gelatin until thick; pour over lemon gelatin. Chill until firm.

To serve, cut into squares. You may want to make the lime and strawberry gelatin a deeper color by adding a few drops of food coloring, green and red respectively.

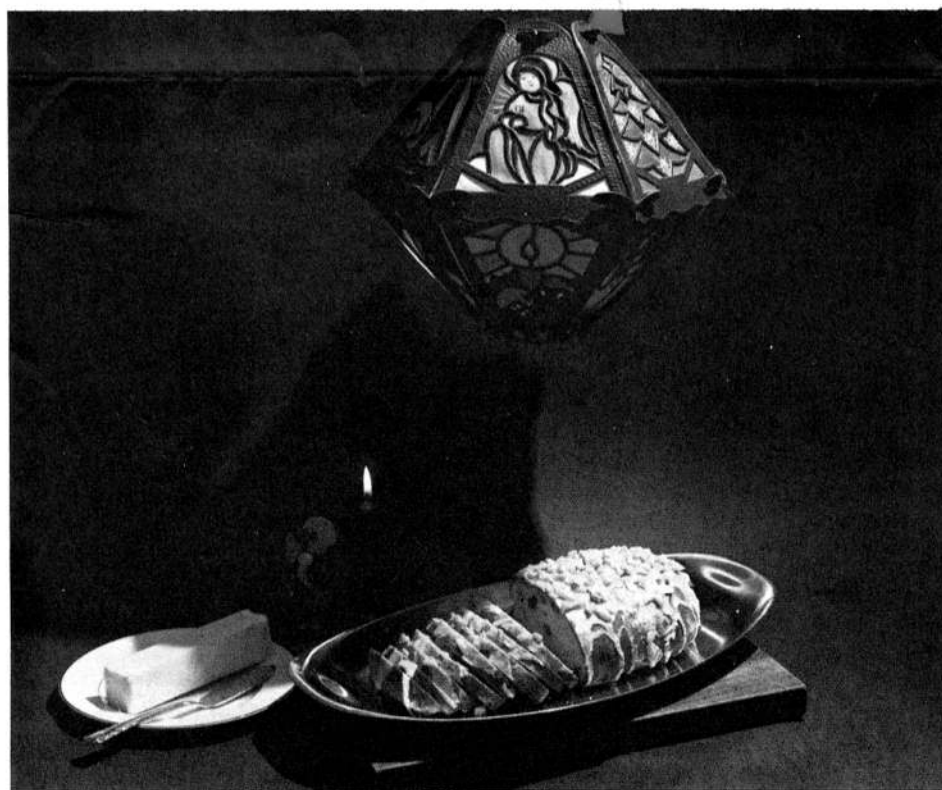
Reva Day, Cafeteria manager at ORGDP, shares an easy-to-make recipe for cranberry mold. It's not only easy, it can be prepared in advance.

Cranberry Mold

1 large box cherry gelatin
1 15 oz. can whole cranberry sauce
2 oranges peeled and diced
2 apples peeled and diced
1/2 cup pecans chopped

Mix gelatin with 2 cups hot water, mix in cranberry sauce. Let cool until mixture begins to thicken then fold in oranges, apples, and nuts. Pour into mold and refrigerate.

(Please turn to page 8)



Stollen

In this issue. .

A family tradition is observed again this year as the Eldredge Kennedy family participates in the annual Nativity pageant in Knoxville. "It's part of our holiday," Kennedy says, after the family's sixth consecutive pageant.

Other features

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A different drummer

Kennedy family participates in sixth pageant

Not many electrical engineers spend a part of their holiday season each year dressed as a Roman centurion, but Eldredge Kennedy, a part-time member of the ORNL Instrumentation and Controls Division, is one who does.

Kennedy, who is also a professor of electrical engineering at the University of Tennessee, plays the role of a Roman soldier in the 11th Annual Knoxville Nativity Pageant, scheduled December 16, 17 and 18 at the Knoxville Civic Coliseum.

Participation in the pageant has become an annual tradition in the Kennedy family. This marks the sixth year that Eldredge and his daughters, Marilyn, 16, and Ruth, 14, have been members of the cast. Daughter Rachel, 10, is a three-year veteran, and Mrs. Lynda Kennedy was a member of the board of directors for several years.

"This year, Lynda is limiting her activities to preparing us all for the pageant," Kennedy said. "With four of us to get dressed, made up and ready at the same time, that's quite a job."

Kennedy, who holds BS, MS and PhD degrees from UT, joined the ORNL staff in 1963 as a full-time development engineer. He accepted the UT teaching position in 1970, and has remained with the Laboratory on a part-time basis.

according to Kennedy. Although a wardrobe committee member managed to lengthen it before the first performance, the somewhat embarrassed soldier took no chances, showing up in bright red gym shorts, "just in case."

Because the pageant is based on the Biblical nativity story, Kennedy said it basically has changed very little since his involvement began. Minor changes are often made in the roles of some of the characters, however. "Last year, for example," he said, "the director decided to make the Roman soldiers appear tougher by including a scene in which they throw a beggar child out of an inn. During dress rehearsal, one of the soldiers, a ruggedly built college football player, threw the child out a little too forcibly, almost injuring him. Needless to say, the soldier took the instructions less literally during the actual performances."



Lucy the donkey was the focus of another of Kennedy's anecdotes. "During the pageant, Lucy's job is to enter the stage, alongside Mary and Joseph in Nazareth (represented by one section of the stage). She is to wait there for a while and then accompany them into Bethlehem (another section of the stage). She is supposed to wait there until the last part of the story and then exit the stage. During one performance a few years ago, Lucy decided she had waited long enough making the journey from Nazareth to Bethlehem and off the stage by herself, leaving Mary and Joseph stranded without transportation! The audience really broke up, but we managed to complete the performance without her."

Kennedy said he is always amazed by the way the pageant seems to work each year, even with limited rehearsal time and amateur actors. "Dress rehearsal (usually held before the first performance) is always wild! Remember, we only have one real rehearsal for the entire cast. Something awful usually happens then, but things seem to come together somehow for the performances."

The pageant apparently has become a very popular event in the Knoxville area. Cast size is limited to about 85, and there is a lengthy waiting list to fill any vacant roles. The pageant choir, however, holds open rehearsals, and last year some 200 persons participated.

Admission to the pageant is free. Performances begin at 3 p.m. (December 16) and 7:30 p.m. (December 17 and 18).

One thing is certain—the Kennedys wouldn't give up their roles in the pageant cast for anything. "We all enjoy the pageant so much," Kennedy said. "It just wouldn't be Christmas without it."



THESE MEMBERS of the Kennedy family are dressed and ready for their roles in the Nativity Pageant. From left are Rachel (villager), Eldredge (centurion), Marilyn (archangel) and Ruth (villager).

about people



Akers



Coutant

W. B. "Dub" Akers, Jr., machine general supervisor in Paducah's Fabrication and Maintenance Division, has been commissioned by Kentucky Governor Julian Carroll to serve on the state's Developmental Disabilities Planning Council. The council was created to develop services for and protect the rights of people with developmental disabilities.

Commission members are derived from all over the state and include doctors, psychiatrists, parents of developmentally disabled persons, representatives of state agencies or private organizations which provide services for the developmentally disabled.

Akers, a 26-year Union Carbide veteran, also serves on the executive board of the Parent-Relative Organization for Oakwood Facilities, Inc., at the Oakwood Training Center for the Mentally Retarded where his son is enrolled. He was instrumental in the establishment of Paducah's West Kentucky Easter Seal Center.

Charles C. Coutant, an aquatic ecologist in the Environmental Sciences Division at ORNL, has been elected chairman of the Electric Power Research Institute's (EPRI) Advisory Council.

The Council was established when EPRI was formed in 1972 to oversee the initiation and growth of the Institute. It is composed of 25 nonelectric utility representatives from a wide range of backgrounds and disciplines. Coutant has served on the Council as a representative of the environmental research community since its inception.

Coutant, who joined the ORNL staff in 1979, received his doctorate degree in biology/ecology from Lehigh University in 1965. He previously studied the effects of pollutants on the environment while employed at Battelle Pacific Northwest Laboratories, Richland, Wash. He currently conducts reservoir ecology research and is involved in ORNL's internal energy conservation efforts.

A Fellow of the American Institute of Fishery Research Biologists, Coutant holds membership in several other professional organizations. He also serves on the Environmental Quality Advisory Board for the city of Oak Ridge.



He became involved with the Nativity Pageant in 1974, when his wife was serving on the board. "They needed some tall men in the cast, so I was recruited as a villager," he recalled. "My duties involved leading Lucy, the cast donkey (who is 26 years old and has been in every performance since the pageant's inception), across the floor. Lucy is quite a ham and hates to leave the stage. I ended up having to bribe her with crackers and vanilla wafers, her favorite snacks, and even with all that, I practically had to drag her off the stage."

After that rather inauspicious beginning, Kennedy served as a villager for two more years. He then became a centurion, a role that requires an ornate and confining costume. "Although it comes off in about five minutes, it takes me almost half an hour to put it all on," Kennedy explained. He added that the papier-mache armor "makes me sympathize with ladies who used to wear corsets."

The red and gold costume poses other problems, too. One of last year's centurions was apparently too tall for his "skirt," and when he knelt in dress rehearsal, it "hiked up,"

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CLASS MEMBERS—Members of the sign language class at ORGDP are, from left, Herman Jinks, Robert Thomas, Jack Cowen, Freddie Markham,

Douglas Wood, Lucy Kirkham, Elizabeth Drinnen, James R. Johnson, George W. Harris, Eddie Clayton and R. E. Brockwell.

Twelve-week sign language training class taught at ORGDP

As part of the Division's affirmative action program for the handicapped, several deaf people have been employed in various ORGDP divisions. In August 1979, the Finance, Materials and Services Division initiated a program designed to narrow the communication gap between these employees and their co-workers.

A. A. Toney, Office Services Department head, initiated a 12-week sign language training class for

employees who have frequent work-related contacts with deaf employees. Fourteen people from three divisions—Finance, Materials and Services; Separation Systems; and Engineering—participated. Three of the participants, Douglas Woods, P. E. "Eddie" Clayton, and Freddie Markham, are deaf. Lucy Kirkham, Engineering Division, was the class instructor.

Kirkham learned the art of talking with her hands at an early age; both

her parents are deaf. According to Kirkham, during the 12 weeks the class learned the alphabet and was introduced to 200 to 300 different signs. Some of the signs were taken from the class textbook, *The Joy of Signing* by L. L. Riekehof. Douglas Woods, the deaf employee who assisted as class instructor, related the language of the book to some of the more common signs and those that could be used in family and work related conversations.

Rudy Johnson, one of the class members, believes everyone should know sign language. Johnson stated, "A person has to be very alert to learn." All the members agreed sign language should be taught throughout the Nuclear Division.

Other aids to deaf employees are also being implemented at ORGDP. A PortaPrinter II telephone/teletypewriter is being installed in the Engineering Division for use by all deaf plant employees.

ORGDP names Lynn Denton Computer Services manager



Lynn F. Denton

Lynn F. Denton has been named manager of Computer Services at ORGDP, according to an announcement from Charles L. Allen. He replaces E. C. Witt, who is retiring after more than 35 years of service with the Company.

Denton, a native of Clinton, holds a BS degree in accounting from Carson-Newman College and has done graduate work at the University of Tennessee. He joined Union Carbide in 1966 and has held various position in Computer Sciences.

Married to the former Lyndsey Steadman, Denton lives at 302 Woodhaven Lane, Clinton. The Dentons have two children, Whitney and Clark.

Safety Scoreboard

Time worked without a lost-time accident through December 6:

Y-12 Plant.....2 Days
Paducah.....196 Days
ORGDP.....359 Days*
ORNL.....42 Days

74,000 Employee-Hours
2,095,000 Employee-Hours
11,438,981 Employee-Hours
887,248 Employee-Hours

*A record-breaker!

Blazier, Taylor promoted in Y-12



Blazier

Taylor

James W. Blazier II has been named a maintenance supervisor and James F. Taylor a materials planner in Product Engineering at the Y-12 Plant.

Blazier, a native of Knoxville, joined Union Carbide in 1976. Prior to that he was with Automatic Sprinkler Corporation of America and Southern Automatic Sprinkler. He holds a BS degree from the University of Tennessee.

Mrs. Blazier is the former Deborah Shults, and the couple lives at 7328 Glastonbury Road, Knoxville. They have one child, Jamie.

Taylor was born in Orlando, Fla., and joined Union Carbide in 1970. He worked with Boeing Aircraft prior to coming to Y-12. He is attending Roane State Community College.

He and his wife, the former Patricia Alewine, live at Route 3, Kingston. They have three children, Marty, Wayne and Tommy.



Flight 602

Paducah dance

The Paducah plant's annual Christmas dance, "The Merry Christmas Ball," will be held Friday, December 21, at the Civic Center, 2701 Park Avenue.

Doors will open at 8 p.m. with dancing to begin at 9 p.m. This year's dance will feature Flight 602, a local group.

Tickets are \$10 per couple and are available from the following employees: Jeff Vandeven, Brenda Stokes, Curtis Chenault, D. B. Charlton, Ed Cothran, Jim Freeman, Claudia Reynolds, Kay Copeland, R. L. Alexander, Charlene Riley, Joe Neff, J. B. Smith, Soapy Williams and Bill Cronin.

wanted. . .



ORNL

POTENTIAL RIDERS for bus pool from Knoxville, leaving from Olivet Baptist Church on Pleasant Ridge Road with stops at Westhaven, Cumberland Estates and Karns, to any portal, 8 to 4:30. Floyd H. Watson, plant phone 4-4743, home phone 546-6001.

RIDERS from Emory Valley to any portal, straight day. Gerry Johnson, plant phone 4-4379, home phone 483-0262.

VAN POOL RIDERS from West Knoxville to any portal, 8-4:30. Mike

Caldwell, plant phone 4-4885, home phone 691-4194.

JOIN or FORM CAR POOL from Clinton to West or North Portal, 8-4:30. John G. Smith, plant phone 4-4718, home phone 457-5847.

Correction

The author of the November 29 "Energy Advisor" column, Douglas J. Dypolt, was incorrectly identified as a member of the ORNL Energy Division. Dypolt is in General Engineering, Environmental Control. The News regrets the error.



Medicine Chest

'Holiday heart' syndrome

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

Bill Drink (fictitious name) led a stressful life. He had numerous deadlines and quotas to meet. His family was extremely demanding. After a hard day, it was his custom to have two or three martinis before supper so he could "relax." After supper, he usually had two or three more so he could "get a good night's sleep." When the holiday season arrived, he was invited to numerous parties and often drank heavily. At a New Year's Eve party, he suddenly became short of breath and felt his heart beating rapidly and irregularly. He told his wife of his trouble, but before she could get him to lie down, he collapsed.

Tests showed no detectable heart disease.

At the emergency room, the electrocardiogram showed atrial fibrillation with numerous ventricular extrasystoles. The upper chamber of the heart was "quivering" in a purposeless fashion, and the main pumping chamber was missing beats. Within minutes, the ventricular rate increased rapidly and, to prevent a fatal ventricular fibrillation, cardioversion was performed. He was given an electric shock to his chest, which converted the heart rate to a normal (sinus) rhythm. He was

admitted to the hospital but exhaustive tests showed no detectable heart disease.

With abstinence from drinking, the syndrome disappears.

Bill had what is now frequently called the "holiday heart" syndrome. It was first described in 1978 by Dr. Philip Ettinger and his associates at the New Jersey Medical School in Newark and Englewood. They reported 32 patients who had a history of immoderate drinking over many years but who were brought to the emergency room because of severe cardiac rhythm disorders.

The arrhythmia was precipitated by an alcohol binge.

They defined the term "holiday heart" syndrome as an acute disturbance of cardiac rhythm after chronic heavy alcohol consumption in a person without clinical evidence of heart disease. With abstinence from drinking, the syndrome disappears without evident residual damage. Without abstinence, the episodes may be recurrent. Ettinger and his group described one 31-year-

old woman who was brought to the emergency room three times in the two-year period following her first episode. Each time the near-fatal arrhythmia was precipitated by an alcohol binge.

All cases were examined by autopsy.

In a large study of the causes of death in alcoholics in Baltimore done over 10 years ago, the length of obvious illness that preceded death was determined in 262 persons of 25-44 years of age. Of these, 134 (51.2%) had sudden and unexpected deaths. Forty-three (32%) had been observed, and death occurred within two hours. These individuals had apparently been perfectly well previously. Eighty-four were not observed but had been seen alive outside the hospital within 24 hours of death. All cases were examined by autopsy, but since the study was about liver disease, no mention of the cardiac findings was made in the published report. It makes one wonder how many of these sudden deaths were actually caused by the "holiday heart" syndrome.

Apparently, alcohol affects the refractory period.

Animal studies have been performed to determine whether ethyl alcohol changes the electrical properties of the heart muscle. Normally, heart muscle will respond to an electrical stimulus but then has a momentary refractory period when it will not respond. After the animals were fed alcohol for a long time, their heart muscles became more susceptible to electrical stimulation. The refractory period was changed. The effect was not seen in animals given only one dose of alcohol, even though large amounts were used. It also could not be elicited unless the animal had a blood alcohol of about the same level as is considered legally intoxicating in humans (150 mg alcohol per 100 ml of blood). In other words, the muscle had to be pre-conditioned by chronic alcohol consumption and then alcohol had to be present when the stimulus was given.

Other studies have shown that ethyl alcohol alters electrical conduction velocity and action potential duration. It also causes an increase in certain adrenal hormones that could be toxic to the heart muscle and could alter its reactivity.

A normal heart beat requires the progression of an electrical stimulus through the muscle in an orderly fashion, so the chamber can contract in a purposeful pumping action. Apparently, alcohol affects the refractory period and allows electrical currents to reenter the muscle, causing it to contract in an abnormal fashion. Electrocardiographic studies of patients with the "holiday heart" syndrome have shown a wide range of bizarre arrhythmias, many of them life threatening.

Smoking, fatigue and caffeine could also be contributory factors.

Just how often fatal heart attacks occur when a person has been drinking is unknown. It is a fairly common experience for pathologists performing autopsies on persons who died suddenly, presumably because of a heart attack, not to find any areas of damaged muscle in the heart. The deaths were apparently due to sudden fatal arrhythmia.

Moderation is the answer.

The "message" from this syndrome is an additional warning on the toxicity of alcohol. Individuals who consume six or more drinks (a can or bottle of beer is "a drink") almost every night for 5 to 10 years are at greatest risk. It is also possible that persons who have drunk alcoholic beverages regularly, although not as heavily, and who have an unknown coronary circulation problem could develop a fatal arrhythmia by immoderate "holiday" drinking. Excessive smoking, fatigue and too much caffeine could also be contributory factors increasing the toxicity of alcohol to heart muscle.

The answer? Moderation for a happy and safe holiday season!

wanted...



ORGDP

RIDE from Norris, or Green Valley Truck Stop, to Portal 4, 7:30 a.m. to 4 p.m. shift. Bernice, plant phone 4-8850, home phone Norris 494-7341.

RIDE from Rocky Hill or West Hills area to ORGDP, 8 to 4:30, Portal 7. Call 4-7950 or 584-8293.

BUS RIDERS from 7:45 to 4:15 to Portals 1, 2 and 4 (Oak Ridge area). Contact Gwen McLaughlin at 4-8109 or 483-9948.

JOIN OR FORM CARPOOL from South Knoxville or Merchants Road/Almart area. D shift, any portal (preferably 4). Contact John Ross at 4-9321 or 577-0692.

RIDE from Lad Store on Gallaher Road to Portal 4. 8 to 4:30. Mike McKeethan, 4-8510 or 376-5384.

Y-12 Plant

RIDE from I-40, Northshore Drive, Knoxville, to Pine Ridge Portal, 7:30 a.m. to 4 p.m. Ted Newman, plant phone 4-3807, home phone Knoxville 577-5604.

VAN POOL RIDERS from Smithwood, Fountain City, Norwood and Powell Shopping Center to East or North Portal, straight day. Bill Moyers, plant phone 4-3195, home phone Knoxville 689-4087.

VAN POOL RIDER from Maryville to East, North or Central Portal, straight day. Darell Coppenger, plant phone 4-1380, home phone Maryville 983-5939.

RIDE or JOIN CAR POOL from Lenoir City to Central Portal, 7:30-4:00 shift. Juanita Easley, plant phone 4-2438; home phone 986-7279.

division deaths...

Lawrence R. Phillips, classification officer for the Y-12 Plant, died December 2 at the Oak Ridge Hospital.

A native of Marlette, Mich., he held a BS from Alma College and a PhD from the University of Indiana. He taught at Alma and the University of Florida before joining Union Carbide in 1952.

Mr. Phillips is survived by his wife, Elizabeth Frevert Phillips, 501 Michigan Avenue, Oak Ridge; sons, James R. and John A.; daughters, Jean Richards and Barbara Phillips; his father, R. Roy; brothers, Gerald and Robert; and six grandchildren.

Memorial services were held at the First United Methodist Church. His body was donated to the University of Tennessee Center for the Health Sciences. The family has requested that any memorials be made to the First United Methodist Church, Oak Ridge.



Mr. Phillips



Mr. McDaniel

Earlie McDaniel, an engineer in the ORNL Instrumentation and Controls Division, died November 24 at Oak Ridge Hospital. A 32-year ORNL employee, he lived at 407 Jefferson Avenue, Oak Ridge.

Survivors include his wife, Vernie D.; sons, Kenneth S. and Ronald D., both of Oak Ridge; and daughter, Betty LaRock, of Margrave, Florida.

Funeral services were held at Weatherford Mortuary, Oak Ridge, with burial in Oak Ridge Memorial Park. Memorials may be sent to the American Cancer Society or the Oak Ridge Senior Center.

question box. . .

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Incompatible staples

QUESTION: Could Carbide not standardize the kind of staplers we use at Paducah? Swingline staples will not work in Acco staplers. The one I have is constantly jamming.

ANSWER: Stores-stocked staples are interchangeable in Swingline and Acco staplers; however, it is true that occasionally any stapler will jam. If you have a special problem, call it to the attention of your supervisor.

What is an official call?

QUESTION: We are constantly reminded that plant telephones are for official calls only. What is an official call?

ANSWER: An official call is one related directly to your work. Calls to the home to advise of unexpected work schedule changes may be considered official. Personal calls which are necessary may be made provided the cost, if any, resulting from such calls is billed to your residence telephone number, your personal credit card, or the call placed collect or from a pay telephone if one is available. In any event, all calls should be limited to the minimum time necessary to fulfill the purpose.

With the new telephone system in Oak Ridge, all calls there are traceable. Abuses in use of the telephone system throughout the Nuclear Division will be investigated and corrective action taken in each case.



Next issue. . .

The next issue will be dated December 27. The deadline is December 19.

Snow policies

QUESTION: Is the policy on snow day absences determined by each installation or by each division at an installation? Or is there an overall policy?

ANSWER: The Nuclear Division policy concerning severe weather absence, which is included in the Standard Practice Procedure book, is as follows:

"Tardiness caused by severe weather conditions (ice, heavy snow) may be approved as personal absence with pay provided the salaried employee has made reasonable advance preparation and makes every reasonable effort to report on time. Absence for the whole day will ordinarily be considered personal without pay for the nonexempt salaried employee. Personal leave with pay for the whole day will only be for rare and unusually extenuating circumstances with full consideration of the employee's record. All personal absences for hourly employees will be governed by the company-union contract. Vacation may be used for this purpose if the work load will permit and it is approved by the start of the shift or as soon afterwards as possible.

"Decision for total or selective early release of employees from work because of severe weather (ice, snow) will be made by the Nuclear Division President's office for the Oak Ridge installations and by the installation head at Paducah. The decision will be communicated by each installation head. Employee Relations will coordinate the details and scheduling of such release. Employees with long commuting distance and with expected unusually difficult travel conditions may be granted an early release under controls set out by the President's office (or the Paducah Plant Manager's) for that day including, where approved, payment for personal time."

Susan Whatley named technical assistant in Physical Sciences

Susan K. Whatley has been appointed technical assistant to Alexander Zucker, associate director for the physical sciences at ORNL.

Whatley, who joined ORNL in 1957 as a secretary in the Personnel Division, has been a member of the research staff in the Chemical Technology Division since 1976, when she received the B.S. degree in engineering science and mechanics from the University of Tennessee.

She was a secretary in the former Isotopes Division for 15 years before taking leave in 1974 to attend college full-time. While at college she was a summer research participant at ORNL.

Whatley has continued to attend UT part-time and will receive her master's degree in engineering science and mechanics this month.

In her new position, she will assist in the administration of research programs in the physical sciences that are supported by more than \$40 million annually in funds provided by the Department of Energy and other federal agencies.

The Laboratory's physical research programs are concentrated primarily in three areas—chemical science, materials science, and nuclear



Susan K. Whatley

science—which provide understanding of fundamental processes and support the development of non-nuclear as well as nuclear energy technologies.

Whatley and her husband, Marvin, also a member of the Chemical Technology Division, live at 119 Oklahoma Avenue, Oak Ridge. They have six children.

Mechanical Inspection marks 25 years of safe operations

The Mechanical Inspection Department in Y-12's Product Certification Division recently completed 25 years of operations without a disabling injury. Considering the type of work performed by the inspectors, this is quite a feat.

The department began in 1954 with four employees and has grown to its present complement of 29. They perform more than 3,000 tests and inspections per month on such varied items as pressure vessels, relief valves, material handling equipment, furnaces and ovens, ladders, and gas cylinders and regulators.

"Not only do they perform their own work safely, "a Safety

Department spokesman said, "but they provide the rest of us with a safe working environment with their constant vigilance for potential hazards that might arise."

The department was supervised for 18 years by Jim Thompson, two by Fred Mundt, and Glen Wells has headed the group for the past four years.

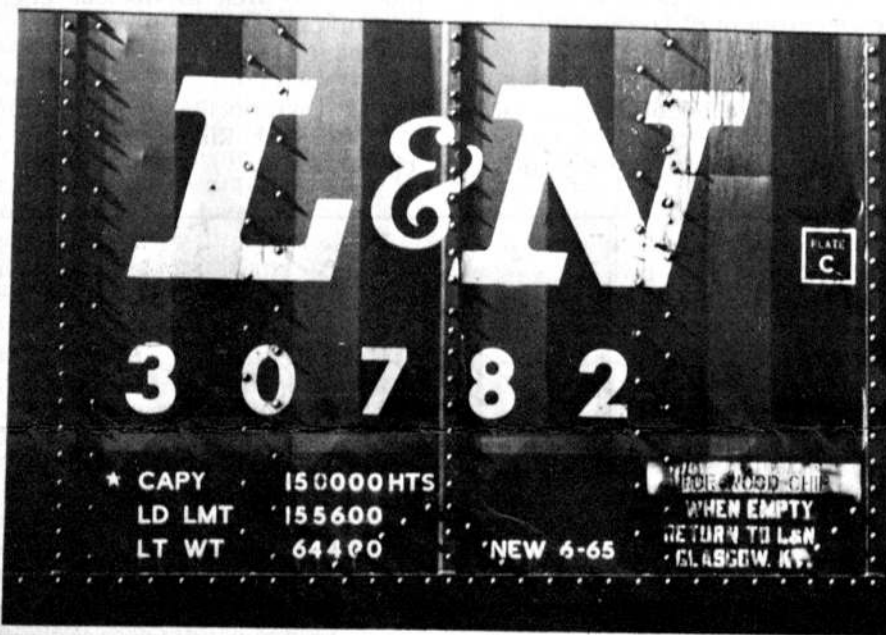
Mechanical Inspection personnel recently gathered to hear plaudits from Kenneth Bernander, Product Certification superintendent; James C. White, Technical Services manager for the Nuclear Division; Jack M. Case, Y-12 Plant manager; and Paul R. Vanstrum, vice president of engineering and development.



Mechanical Inspection Department, Y-12—25 years of safe operations



'Fall Day'
Virginia Coleman



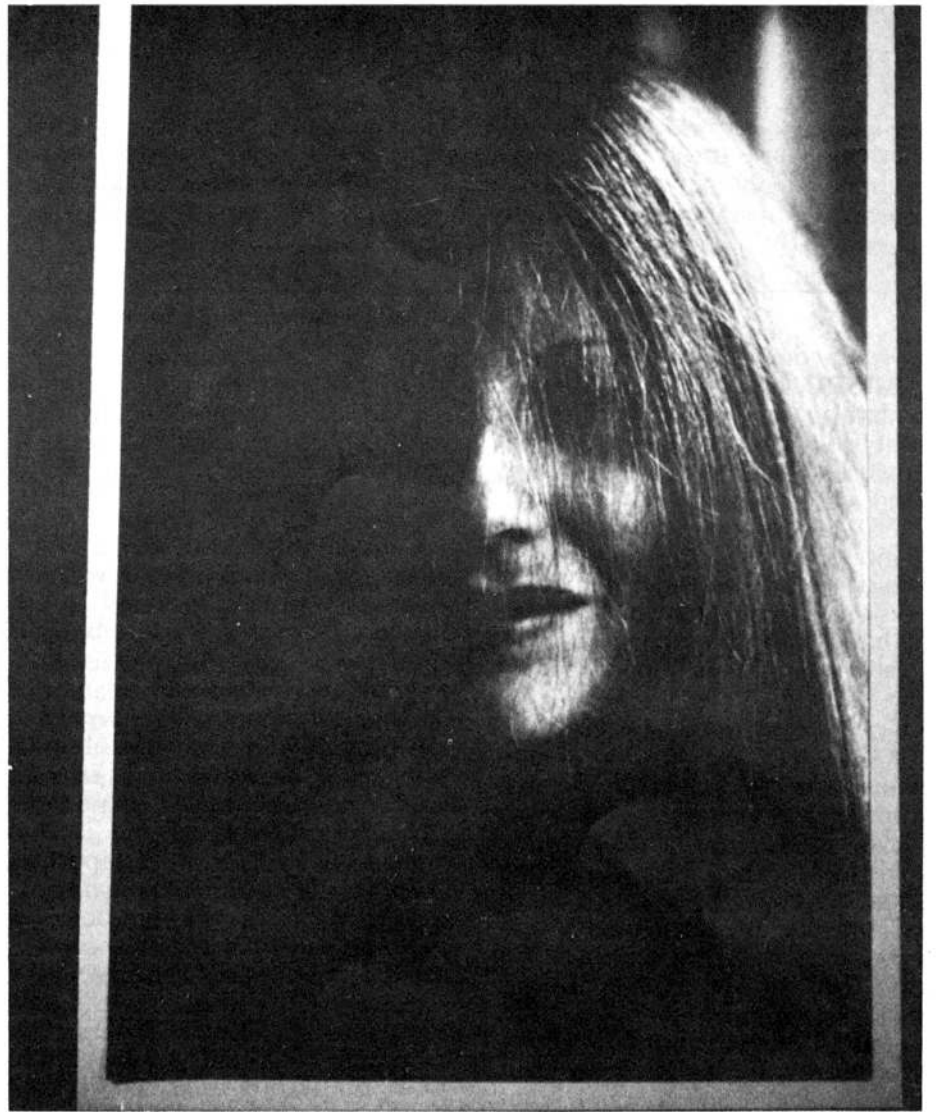
'Return to Glasgow'
John Blankenship

Camera Club lists winners

The Carbide Camera Club has announced its winners for the 1979 Salon. The "best of show" in color prints went to Virginia Coleman for "Early Morning;" and to Conrad Richter for "Caricature in Blue" in black and white. (Coleman's "Fall Day" is seen above).

John Blankenship's "Return to Glasgow" took a second prize as best in black and white prints.

The works were on display at the Oak Ridge Community Art Center through December 8. Visitors were asked to vote for their favorite picture in the exhibit. That decision and other winners will be announced later.



'Caricature in Blue'
Conrad Richter

Bowling League standings. . .

Y-12 C. . .

The Sunflowers stole the lead from the Rollmasters recently in Y-12's C League. The Mini-Strikes trail in the bowling circles by four points. Ed Sise has the third position in the season high series with 700. Dennis Cornett has third place for the season high game of 270.

UCC Mixed. . .

The Go-Getters took the lead back from the Alley Cats by two and one-half points. The Safe Guards are in third position out one point. Weekly scratch awards went to Kelly Hopson for her 202/549. Frank Adams rolled a 224/615 on the male side of the fence.

ORNL A. . .

The Dynamics continue to hold their lead over the Zots in the ORNL A League. Weekly highs went to the Dynamics for high team series of 2996. McLaughlin, Dynamics, rolled a 667 for high series. Hurd rolled a 253 high handicap game for the leading team. McCulloch, Limits, rolled a 217 high scratch game.

ORGDP Women's

The Payoffs lead over the Bowling Aces in the ORGDP Women's League. The Hi-Rollers are in third position. Team season highs are held by the Bowling Aces for high handicap game of 863. The Starlites have the high handicap series rolling a 2415. Individual awards are currently held by E. Davis for high handicap game of 264; Sandy Biedel, Bowling Aces, with a high series of 691.

ORNL C. . .

The Alley Rads still hold the lead over the Hit Men in the C League. The Remkeys are also tied for second place. Weekly highs were rolled by the Easy Rollers with a high handicap series of 3103. Wolfenbarger and McKnight, Easy Riders, rolled 702 and 272 consecutively. Cox, Timberwolves, won the high scratch game, taking a 227.

K-25 Tuesday. . .

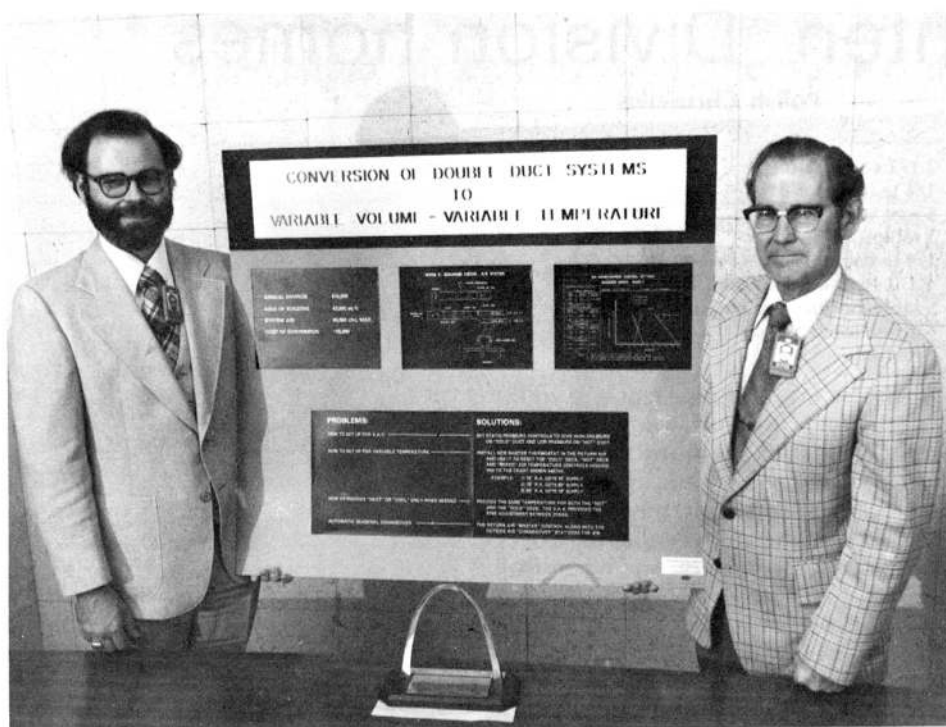
The All Stars pushed out in front of the Fearless 5 this time around in the Tuesday Men's League. R. K. Johnson, The Team, rolled a 614 high scratch series. R. S. Leete, also from The Team, rolled a high handicap game of 704. G. J. Marrow, All Stars, took the high game of 232/258.

Family Mixed. . .

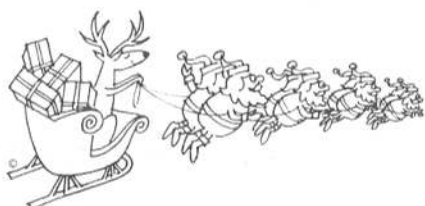
The Strike-Outs have a six-point lead over the Two Plus Two in the Family Mixed League. The Oops won the weekly high team series of 2464. Congratulations to Edith Duckworkth for her outstanding scratch series of 602. She rolled a 212/235 game; 605/671 series.

UCC Monday Mixed

Free Spirit leads the Monday Mixed League over Charlies Angels and Strike Force. Top scoring honors go to Free Spirit, who captured high team game and series handicap with 827/2356. Individual high handicap honors went to Churchill Moore—624 series, Norman Teasley—240 game; Jewell Ellis—650 series and Vivian Varner—240 game. Scratch honors go to Moore for a 246 game and Mildred Gregg for a 549 series.



ASHRAE AWARD WINNER—Pete Scott, left, ORGDP Engineering, and Dick Peden, ORNL Plant and Equipment Division, display the exhibit that won local and regional competitions in the "1979 Gateway to Energy Conservation Awards Program" sponsored by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). The exhibit represents special modifications to the heating and cooling system in Wing 5, Building 4500 North, ORNL. The modifications, which were also applied in six other areas at ORNL, control the system so that heating and cooling are used only when needed and never at the same time. The Wing 5 modifications serve an area of approximately 43,500 square feet and were implemented at a cost of less than \$5000. Resulting energy savings are estimated at about \$10,000 per year. Scott is chairman of the local ASHRAE chapter's energy management committee, and Peden was field engineer for the project.



NUCLEAR DIVISION NEWS

UNION CARBIDE CORPORATION
NUCLEAR DIVISION

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PADUCAH

Darlene Mazzone, Bell 208

anniversaries. . .

Y-12 PLANT

30 YEARS

Samuel T. Shultz, General Can Fabrication Shop; and Lloyd O. Campbell, Guard Department.

25 YEARS

George W. Holbert, Paul F. Meredith, George R. Myers, Lige M. Gibson Jr., Joseph D. Collins, Charles C. Jones, Charles F. Mason, Neil B. Schultz, Clyde B. Clift and Claude J. Cumbie.

20 YEARS

Charles C. Brown, Conrad S. Strike, Sidney R. Strunk and Herbert W. Hensley.

Paducah

25 years

Velva K. Blayney.

ORGDP

35 YEARS

Helen Hogan, General Accounting; Mable Stokes, Purchasing; Mat Morton, Maintenance; and Carlyle Dowdy, Technical.

20 YEARS

Joan Gordon.

Gym reserved

The Broadway Methodist Church gym will be available to Paducah plant employees every Friday morning in January, February and March from 9 to 11 a.m. The gym will also be open every Friday evening in January and February from 5 to 6 p.m. The facilities are available to employees only.

retirements. . .



Glen H. Doughty
Plant and Equipment
ORNL
33 years service



Hermon L. Dickerson
Physics
ORNL
36 years service



Alvin E. Hill
Maintenance
ORGDP
29 years service



Artist O. McGaha
Operations
ORGDP
34 years service



Ewell S. Thompson
General Accounting
31 years service



Porter B. Orr Jr.
Chemical Technology
ORNL
36 years service



Johnnie H. Cline
Operations
ORNL
32 years service



William L. Calvert
Operating Contractors
Project Office, ORGDP
33 years service



Glenn M. Way
Operations
ORNL
33 years service



Floyd R. Wilkerson
Biology
ORNL
34 years service



Arthur M. Houser
Finance and Materials
ORNL
34 years service



Mary O. McKinney
Purchasing
33 years service



T. J. Bunch
Operations
ORGDP
34 years service



Junior A. Womac
Maintenance
ORGDP
33 years service



James R. Croley Jr.
Purchasing
27 years service



Woodrow Franklin
Maintenance
ORGDP
35 years service

Traditional dishes brighten Division homes



Mary McClanahan ————— 'Non-traditional' menu

Anne Travis and **Frances Burkhalter**, both of ORNL's Information Division, shared some of their favorite holiday party recipes. Anne's cheese balls and vegetable dip are quick and delicious appetizers, and Frances' spaghetti salad adds a zesty and unusual touch to any holiday gathering.

Yule Cheese Balls

1 can Bean with Bacon soup (undiluted)
1 lb grated sharp cheddar cheese
2 T worcestershire
1 T minced onion (flakes)
1 t garlic salt
1/2 T hot pepper sauce

Mix together thoroughly with well-greased hands. On wax paper, shape into cheese balls (2 large or 3 medium). Sprinkle with parsley flakes and paprika. Chill.

Party Dip for Raw Vegetables

1 cup mayonnaise
3 t soy sauce
1 t ginger
1 t vinegar
2 T dehydrated onions
2 T milk

Mix ingredients; blend until smooth; chill until serving.

Spaghetti Salad

1/2 head cabbage (chopped)
1/2 bunch celery (chopped)
1 box spaghetti (cooked according to directions)
3 small onions (chopped)
1 small can pimento

Mix all ingredients in a large mixing bowl.

Sauce:
1 1/2 T prepared mustard
2/3 cup water
2/3 cup sugar
2/3 cup vinegar
2 level T cornstarch
1 t salt

Mix all ingredients together and bring to boil. Cook until mixture thickens. Pour over cabbage, etc. Let set for 8 hours before serving. Will keep in a sealed container, in refrigerator, up to 2 weeks and is better the longer it sets.

Carl Ludemann, ORNL Physics Division, provided the following recipe, a favorite of his wife, Sigrid. Stollen (bread made with currants and glazed fruit) is a Christmas tradition in Sigrid's native Germany.

Stollen

1 pkg. yeast, compressed or dry
1/4 cup water (warm)
1/2 cup milk
1/4 cup sugar
1 t salt
2 T shortening
2 1/2 cups sifted flour
1 egg
1/4 cup raisins (golden or light)
1/4 cup currants
1/4 cup chopped candied citron
1/4 cup chopped candied cherries
2 T melted butter
Confectioners' sugar icing
1/4 cup chopped nuts

Soften yeast in water. Scald milk and add sugar, salt and shortening; cool to lukewarm. Add 1 cup flour; mix well. Add softened yeast and egg; beat well. Stir in raisins, currants, citron and cherries. Add enough more flour to make a soft dough. Knead until smooth and satiny on a lightly floured board or counter surface. Place in a greased bowl, cover and let rise until doubled (about 1 1/2 hours). When light, punch down and shape into 2 balls. Let rest 10 minutes. Then flatten each ball into an oval sheet about 3/4 inch thick. Brush 1/2 of dough with melted butter. Fold over like a large parkerhouse roll. Place on baking sheet. Brush lightly with melted butter. Let rise until doubled (about 45 minutes). Bake in moderate oven (350°) for about 25 minutes. When cool, brush with icing and sprinkle with nuts. Makes 2 stollen. Freezes well!

Polish Treat

Chursciki (translated lover's knots) was featured in last year's Christmas issue as a favorite treat in the Gus Kosinski household. (He heads up Paducah's Technical Services Division's Technology Laboratory). He and Mary are to be thanked for the following treat.

Polish Chruscikis

2 1/2 cups flour
1/4 teaspoon salt
5 egg yolks
3 tablespoons sugar
1/4 teaspoon grated lemon rind
1-1/2 teaspoon almond flavoring
5 tablespoons sour cream
Confectionary sugar
Salad oil

Sift dry ingredients. Beat egg yolks, sugar and lemons, adding flour slowly. Beat at medium speed until thick. Add sour cream, mixing well. Gradually stir in flour, mix and knead in bowl until dough is pliable. Cover bowl and set aside for one hour. Roll out part of dough on lightly floured board until paper thin. Cut into strips 5" x 2", cut a slit about 2" long in center of each. Pass one end of strip through slit. Heat about one quart of salad oil at 370 degrees. Fry three pastries at a time, turning once, until golden brown. Drain on paper towel. Sprinkle with confectionary sugar while still warm.



Mary Alice Hughes
Thumbprint cookies

From ORGDP's Graphic Arts Department, **Mary Alice Hughes** comes up with some holiday cookies that can be decorated with seasonal motifs. She even adapts her formula to microwave cooking.

Thumbprint Cookies

Combine:
1/2 cup margarine
1/4 cup brown sugar
1/4 cup white sugar
2 cups flour
1 egg white
1 teas. vanilla
1/4 teas. salt

Work dough to make smooth ball. Roll into one inch balls. Roll in chopped nuts, if desired. Place on ungreased baking sheets. Press thumb into each one. Bake 12 to 15 min. at 375°. Done't brown. Cool.

ICING: food coloring
1 teas. vanilla
2 cups confectioner sugar
2 Tbls. milk

Mix, color, and fill each indentation with icing.

(Note: I bake these in the microwave oven and they are delicious, bake about 3 minutes on a piece of cardboard).



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